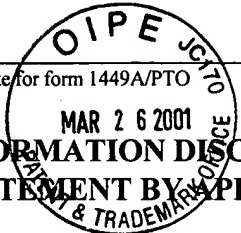


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| <div style="text-align: center;">  </div> | | Application Number | 09/715,909 |
| | | Filing Date | 11/17/00 |
| | | First Named Inventor | Flannagan |
| | | Group Art Unit | 1651 |
| | | Examiner Name | To be Assigned |
| Sheet | 1 | of | 2 |
| | | Attorney Docket Number | 35718/204664 (5718-102) |

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| U. S. PATENT DOCUMENTS | | | | | | |
|------------------------|----------|----------------------|----------------------|---|--|---|
| Examiner Initials* | Cite No. | U.S. Patent Document | | Name of Patentee or Applicant Of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear |
| | | Number | Kind Code (if known) | | | |
| JLH | 1 | 5,693,491 | | BULLA, et al. | 12/02/1997 | |
| JLH | 2 | 6,007,981 | | BULLA | 12/28/1999 | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----------|-------------------------|-------------|---|--|---|
| Examiner Initials | Cite No. | Foreign Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Office | Number | | | |
| JLH | 3 | | WO 96/12964 | BULLA, L. | 05/02/1996 | |
| JLH | 4 | | WO 98/59048 | BULLA, L. | 12/30/1998 | |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|----------|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T |
| JLH | 5 | ESTRUCH, J. et al., Transgenic Plants: An Emerging Approach to Pest Control, Nature Biotechnology, 1997, Vol. 15, pp. 137-141. | |
| JLH | 6 | FRANCIS, B., et al., Further Characterization of BT-R ₁ , The Cadherin-Like Receptor for Cry IAB Toxin in Tobacco Hornworm (Manduca sexta) Midguts, Insect. Biochem. Mol. Biol., 1997, Vol. 27(6), pp. 541-550. | |
| JLH | 7 | FRANKLIN, S., et al., Southern Analysis of BT-R ₁ , The Manduca Sexta Gene Encoding The Receptor for the CryIAB Toxin of Bacillus Thuringiensis, Mol. Gen. Genet, 1997, Vol. 256, pp 517-524. | |
| JLH | 8 | GARCZYNSKI, S., et al., Identification of Putative Insect Brush Border Membrane-Binding Molecules Specific to Bacillus Thuringiensis δ -Endotoxin by Protein Blot Analysis, Applied and Environmental Microbiology, 1991, Vol. 57(10), pp. 2816-2820. | |
| JLH | 9 | GILL, S, et al., Identification, Isolation, and Cloning of a Bacillus Thuringiensis CryIAC Toxin-Binding Protein from the Midgut of the Lepidopteran Insect Heliothis Virescens, The Journal of Biological Chemistry, 1995, Vol. 270(45), pp. 27277-27282. | |
| JLH | 10 | HOFTE, et al., Insecticidal Crystal Proteins of Bacillus Thuringiensis, Microbiological Reviews, 1989, Vol. 53(2), pp. 242-255. | |
| JLH | 11 | HUA, G., et al., Binding Analyses of Bacillus Thuringiensis Cry δ -Endotoxins Using Brush Border Membrane Vesicles of Ostrinia Nubilalis, Applied and Environmental Microbiology, 2001, Vol. 67(2), pp. 872-879. | |
| JLH | 12 | IHARA, H., et al., Purification and Partial Amino Acid Sequences of the Binding Protein from Bombyx Mori for CryIAa δ -endotoxin of Bacillus Thuringiensis, Elsevier Science Inc., 1998, pp. 197-204. | |

| | | | |
|--------------------|-------------------------------|-----------------|----------|
| Examiner Signature | <i>Paul H. H. [Signature]</i> | Date Considered | 01/22/02 |
|--------------------|-------------------------------|-----------------|----------|

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 Examiner Name To be Assigned
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U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. | U.S. Patent Document Number | Kind Code (if known) | Name of Patentee or Applicant Of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear |
|-----------------------|-------------|--|-------------------------|--|--|---|
| PCH | 13 | KEETON, T., et al., Effects of Midgut-Protein-Preparative and Ligand Binding Procedures on the Toxin Binding Characteristics of BT-R ₁ , A Common High-Affinity Receptor in Manduca Sexta for CryIA Bacillus Thuringiensis Toxins, Applied and Environmental Microbiology, 1998, Vol. 64(6), pp. 2158-2165. | | | | |
| PCH | 14 | KEETON, T., et al., Ligand Specificity and Affinity of BT-R ₁ , The Bacillus Thuringiensis CryIA Toxin Receptor From Manduca Sexta, Expressed in Mammalian and Insect Cell Cultures, Applied and Environmental Microbiology, 1997, Vol. 63(9), pp. 3419-3425. | | | | |
| PCH | 15 | KNIGHT, P., et al., The Receptor for Bacillus Thuringiensis CryIA(c) Delta-Endotoxin in the Brush Border Membrane of the Lepidopteran Manduca Sexta is Aminopeptidase N, Molecular Microbiology, 1994, Vol. 11(3), pp. 429-436. | | | | |
| PCH | 16 | LEE, M., et al., Aminopeptidase N Purified from Gypsy Moth Brush Border Membrane Vesicles Is a Specific Receptor for Bacillus Thuringiensis CryIAC Toxin, Applied and Environmental Microbiology, 1996, Vol. 62(8), pp. 2845-2849. | | | | |
| PCH | 17 | McGaughey, W., et al., RT Resistance Management A Plan for Reconciling the Needs of the Many Stakeholders in Bt-Based Products, Nature Biotechnology, 1998, Vol. 16, pp. 144-146. | | | | |
| PCH | 18 | NAGAMATSU, Y., et al., Cloning, Sequencing, and Expression of the Bombyx Mori Receptor for Bacillus Thuringiensis Insecticidal CryIA(a) Toxin, Biosci. Biotechnol. Biochem, 1998, Vol. 62(4), pp. 727-734. | | | | |
| PCH | 19 | NAGAMATSU, Y. et al., The Cadherin-Like Protein is Essential to Specificity Determination and Cytotoxic Action of the Bacillus Thuringiensis Insecticidal CryIAa Toxin, Febs Letters, 1999, Vol. 460, pp. 385-390. | | | | |
| PCH | 20 | ODDOU, P., et al., Immunologically Unrelated Heliothis Sp. And Spodoptera Sp. Midgut Membrane-Proteins Bind Bacillus Thuringiensis CryIA(b) δ -endotoxin, Eur. J. Biochem., 1993, Vol. 212, pp. 145-150. | | | | |
| PCH | 21 | ROUSH, R., et al., Assessing the Odds: The Emergence of Resistance to BT Transgenic Plants, Nature Biotechnology, 1997, Vol. 15, pp. 816-817. | | | | |
| PCH | 22 | VADLAMUDI, R., et al., Cloning and Expression of a Receptor for an Insecticidal Toxin of Bacillus Thuringiensis, The Journal of Biological Chemistry, 1995, Vol. 270(10), pp. 5490-5494. | | | | |
| PCH | 23 | VADLAMUDI, R., et al., A Specific Binding Protein from Manduca Sexta for the Insecticidal Toxin of Bacillus Thuringiensis Subsp. Berliner, The Journal of Biological Chemistry, 1993, Vol. 268(17), pp. 12334-12340. | | | | |
| PCH | 24 | DORSCH, J., Isolation and Characterization of the Insecticidal Toxin Binding Site From the Receptor BT-R ₁ of Manduca Sexta, A Dissertation submitted to the Department of Molecular Biology and the Graduate School of the University of Wyoming, 1998. | | | | |

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|-----------------------|-------------------------|--------------------|----------|
| Examiner Signature | <i>Don. J. McCreary</i> | Date Considered | 01/23/02 |
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